

# Tamicen centrifugal screener

## general features

Mechanical separation, or classification as such, consists of the distribution of a mixture of particles of different sizes into two or more fractions, each of which is made up of particles with more uniform particle size than the initial mixture. This operation is known in the process industry as sieving.



The Tamicen centrifugal screener, thanks to its unique qualities, provides high sieving throughput by dry process or even by wet process in certain applications for all kinds of products. It is especially effective for those products that can not be sieved by vibration due to a high content of moisture, fat or static electricity. Therefore, it is the ideal equipment for all types of safety sieving and product sizing.

### OPERATION

The product to be sieved is conveyed to the centrifugal paddles through the helical feed screw and is transferred gently and without pressure along the sieving cylinder.

The separating mesh is elastically fixed, forming a cylinder, through which the product crossed due to the centrifugal movement caused by the paddles. The equipment has a deflector, of variable size, that retains the product inside the chamber, ensuring

CEN-650 centrifugal screener with Atex protection, fully built in AISI-316 stainless steel

that only the coarse product is dragged to the other end of the machine.

We offer a version specially designed for the separation of crystalline or granulated particles in a liquid medium. This version includes, in the sieving chamber, a shaft with a spiral-type paddle and special seals for working with liquids.



3 D image. Equipment operation



Detail of the spiral-type paddle for liquids

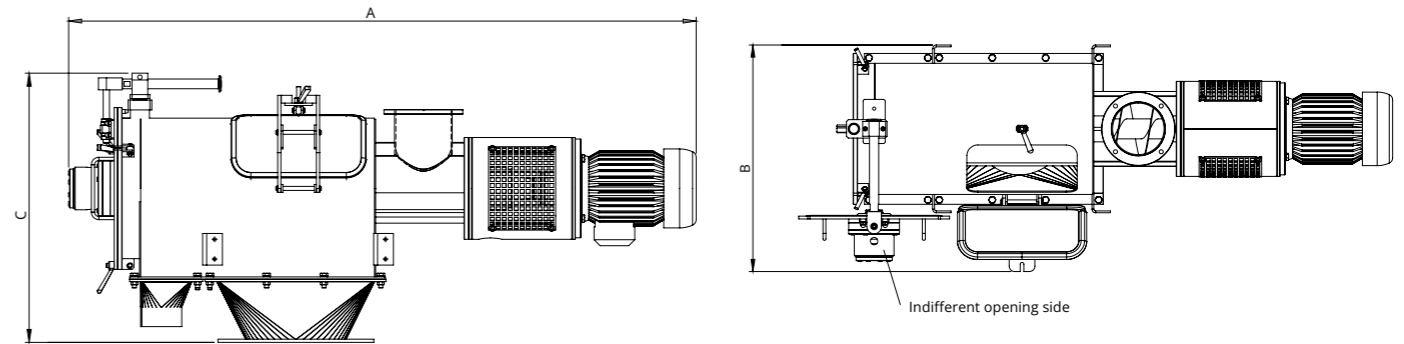


## TECHNICAL FEATURES

- » Fast sieving of all kinds of solid products.
- » Specially designed for wet, greasy and electrostatically charged products.
- » Option to supply the equipment for certain applications in a liquid medium.
- » Accurate separation, high throughput, and silent operation.
- » Easy exchange of sieving cylinders, thanks to the installation of a hinge on the front cover, that converts it into an inspection hole.
- » Available in portable (with wheels) or fixed versions for automatic installations.
- » Option to supply the equipment to be treated with steam at 2 bar (sterilising), with a complete hermetic design.
- » Option for sieve cleaning using ultrasonic waves on the mesh by means of a system composed of an ultrasonic generator and a resonator. This cleaning system significantly increases the throughput obtained.



CEN-450 centrifugal screener assembled on a mobile bedplate. The front cover is easily opened with a 180° swivel guide to facilitate inner access for cleaning and maintenance tasks.



## Technical Data

Model	Power kW	Mesh lights	Dimensions mm			Sieving surface cm <sup>2</sup>	Transmission	Sieve shaft speed rpm
			A	B	C			
CEN-240	0.37	Nylon: 20 μ - 5 mm	1,030	270	330	950	direct	750
CEN-450	1.5		1,590	598	682	2,250	direct	750
CEN-650	1.5		1,790	598	842	3,470	direct	750
CEN-800	3	Stainless steel wire: 400 μ - 10 mm	1,980	625	1,000	7,200	geared motor	460
CEN-1200	4		2,452	702	1,185	13,870	geared motor	330